

Separera *mini*



URINE EXTRACTION

User Manual

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Separera Mini with Urine Extraction

This urine separating toilet is constructed from eco-friendly material and is designed to cope with high demand over many years. What does separating waste mean? Well, the toilet is designed so solid waste is separated from the liquid (urine). This means that the Separera Mini has two containers, one for urine and another for solid waste.

Both must be dealt with in accordance with local regulations.

Contacting Environmental Health

Contact Environmental Health office regarding local health regulations. This applies when installing any type of toilet.

The Separera box

- Toilet with fan
- Lid
- Urine hose (1.5 m)
- Screw with washer for wall bracket (option A)
- Ventilation Pipe 50 cm for wall
- Insect netting
- 2 Composting containers
- Bio bags
- 125ml Nature Flush enzymes
- 750ml Spray bottle

The installation kit

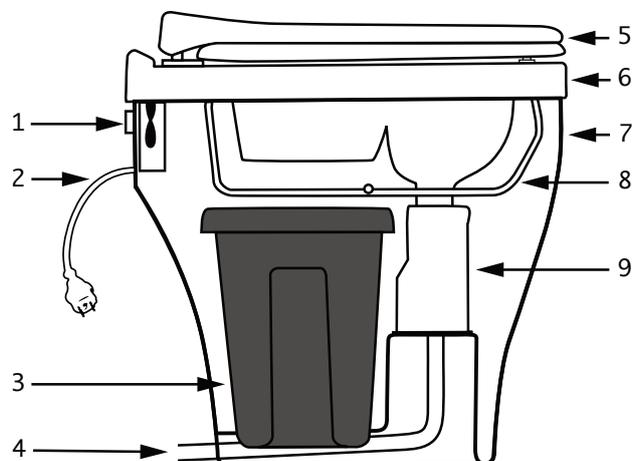
- Ventilation pipes (4x1.1 m ventilation pipe with 55 mm outer diameter)
- exterior pipe (1 x 1.1m with 110 mm outer diameter)
- insulation (2 x 1 m)
- reducing coupling, roof flashing and insect netting.
- The connection kit used in installation option B can be ordered from your dealer.

Wall connection kit (not included)

- Wallbracket
- Pipebend 90°
- Screws/washers

Separera Mini cross section

1. Fan motor
2. Plug/Cord
3. Solid waste container with a bag
4. Urine hose
5. Toilet seat, soft close
6. Upper section
7. Lower section
8. Compost cover
9. Urine connection bowl/hose



Installation

Tools

- Drill
- Holesaw for 55 and 35mm hole
- Silicone

Air supply

10 mm gap under the door or a vent. Air will be evacuated through the toilet, so cross-draughts must be avoided.

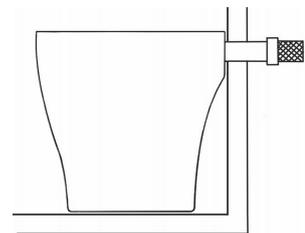
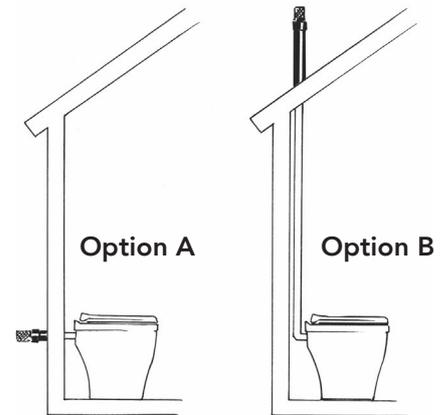
Assembly

Ventilation can be either through an external wall or up through the roof.

Option A – ventilation through external wall

The toilet is supplied with an installation kit according to Option A.

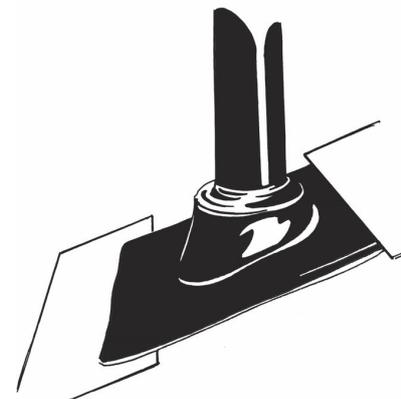
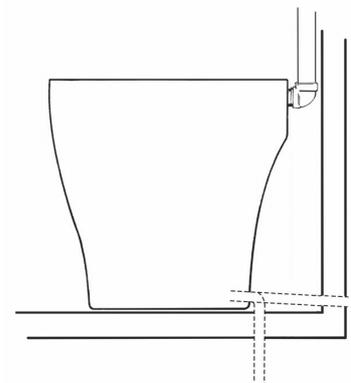
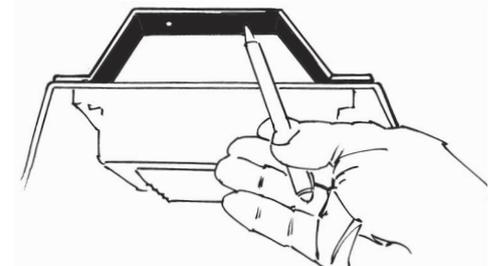
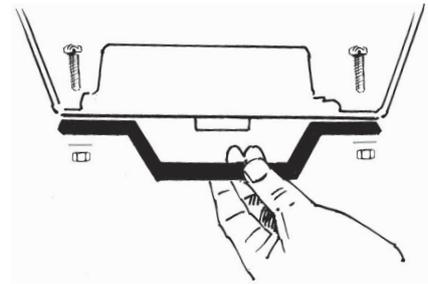
1. Lift off the upper section (6) of the toilet, remove the urine container (3).
2. Measure and mark for the ventilation pipe through the wall, hole centre 359 mm from the floor.
3. Make a hole in the external wall for the ventilation pipe (55 mm).
4. Set the lower section in position and mark for fastening in the wall and urine hose (35mm).
5. Make a hole for the urine hose, either through the wall or floor.
Through wall: up from floor c/c 25mm
Through floor: from wall c/c 40mm.
When the hose is installed through the wall make sure that you have a slope of at least 2 degrees (2 cm per meter) to ensure enough drain out from the toilet.
6. Fit the ventilation pipe and seal in- and out- side using silicone. Fit the insect netting.
7. Pass the urine hose through the floor/wall. Set the lower section in position and connect to the ventilation pipe.
8. Fasten the toilet securely to the wall using screws and washers.
9. Place a bag in the composting chamber and fold it over the edge. Put the frame in position to lock the bag. Place the container inside the lower section and make sure that the bag does not cover the fan.
10. Put the upper section back in place.
11. Connect to power.



Option B – ventilation through the roof

Prior to installation of the Installation Kit and Connection Kit are needed. These can be purchased from the place where the toilet was bought.

1. Lift the upper section (5) of the toilet, remove the urine container (8) and waste container (3)
2. Fasten the wallbracket temporarily on the lower section (7), put the the lower sektion in position against the wall. Mark for the bracket.
3. Remove the wallbracket from the toilet. Install the bracket on the wall.
4. Put the 90 degrees bend on the outlet. Set the lower section in position and fasten it to the wallbracket.
5. Make a hole in the roof for the ventilation pipe, 55 mm.
6. Install the ventilation pipes unsleeved end into the 90 degrees coupling.
7. Insulate all piping that passes through cold spaces (e.g. in the attic and on above roof). This is to prevent condensation.
8. Cut the exterior pipe to fit the angle of the roof.
9. Position the roof flashing. For tin roof, its better to have a sheetmetal worker to make the flashing.
10. Put the outer pipe with the roof flashing over the insulated ventilation pipe.
11. Adjust the roof flashing to the external roof and seal firmly with asphalt sealant between the flashing and the roof.
12. Once all the piping is insulated and covered, fit the reducing coupling on top, and then fit the insect netting.
13. Place a bag in the composting chamber and fold it over the edge. Put the frame in position to lock the bag. Place the container inside the lower section and make sure that the bag does not cover the fan.
14. Put back the top.
15. Connect to power:

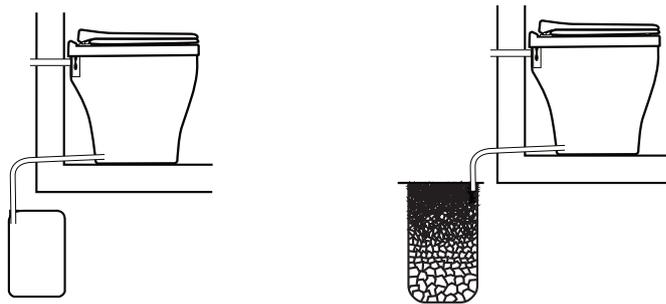


Maintenance

Urine drainage

Urine can be drained away in a number of different ways. Check what is required by your local authority; there are variations depending on ground conditions and the water table. There must be a drop in the hose coming out and away from the toilet to avoid salt deposits; for longer distances, it's better to connect it to a 32mm PVC pipe.

The urine hose can connect to an existing greywater drain, an external filtration, or an external collection bottle.



Solid waste

With normal use, a family of four produces around 7 litres of solid waste per week. The emptying frequency depends on usage. For example, after 2-3 weeks use by 4 people it will be time to switch composting chambers.

Simply remove the top, tie up the bag, remove and replace it with a new bag.

If you would like to compost the waste and use as a fertiliser, we recommend emptying the waste into a separate external chamber, adding a little bulking agent, and setting it aside in a shady place to complete composting (this may take around 6 months, depending on conditions).

Electrical connection

Separera is approved for installation in wet rooms. For permanent installation, a qualified electrician must install a multi-pole switch. If the mains supply cable is damaged it must be replaced by the manufacturer or other qualified person.

General advice

- Flush the urine bowl with water weekly to reduce salt deposits.
- If insects get into the toilet, refer to our information on dealing with insects in our troubleshooting section on our website (ecoflo.com.au).
- To clean the toilet, use only mild detergent. Never use abrasive chemical cleaning agents.
- Empty the solid waste regularly, the bags start to decompose after 2-3 weeks.
- If you do experience a bad smell in the room, check that the pipe connections are properly sealed and there is an air supply.



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